



BOARD OF ADJUSTMENT VARIANCE APPLICATION

Case Number: C10- 18-01 Activity Number: T18SA00021 Date Accepted: 1/10/18PROPERTY LOCATION INFORMATIONProperty Address: 518 S. PLACITA QUINCEProject Description: Detached Accessory StructureZoning: Residential Single Family RX-1 Property Size (sqft): 36154.80Number of Existing Buildings: 2 Number of Stories: 1 Height: 12' 10" & 11'Legal Description: RANCHO DEL ESTE LOT 158Pima County Tax Parcel Number/s: 133-38-1750APPLICANT INFORMATION (The person processing the application and designated to receive notices):APPLICANT: STEVEN G. SIDESADDRESS: 518 S PLACITA QUINCE, TUCSON AZ. 85748PHONE: ((520) 574-4496 FAX: () EMAIL: sgsides1@gmail.comPROPERTY OWNER (If ownership in escrow, please note): STEVEN G. SIDESADDRESS: 518 S PLACITA QUINCE, TUCSON AZ. 85748PHONE: ((520) 574-4496 FAX: () EMAIL: sgsides1@gmail.com

PROJECT TYPE (check all that apply):

☐ New building on vacant land☐ New addition to existing building☐ Existing building needs permits☐ Landscaping / Screening substitution☐ Change of use to existing building☒ New building on developed land☐ Modification to wall/fence height☐ Other _____Related Permitted Activity Number(s): T17CM06843

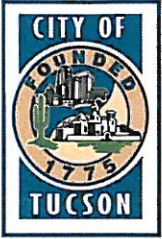
I hereby certify that all information contained in this application is complete and true to the best of my knowledge.

Steven G. Sides

SIGNATURE OF OWNER/APPLICANT

12/5/2017

Date



BOARD OF ADJUSTMENT - PROJECT DESCRIPTION

Provide a description of the project including, but not limited to its lot area, square footage of proposed or existing structures, proposed use/s, is a multiphase project, etc. If this project is the subject of a rezoning or special exception request, HPZ review, or a zoning violation, please provide current status of that case.

Detached Accessory Structure

square footage of existing structures; 1456 house & 644.6 garage

square footage of proposed structures; 864

proposed use; model trains, work shop and storage

Design materials, wood frame, metal roof, engineered siding and concrete floor

Not a multiphase project

Will need variances for, Code 6.6.3 D

D. The total gross floor area (gfa) of all accessory structures shall not exceed 50% of the gfa of the principal structure

Accessory structures less than 200 square feet gfa are exempt from this requirement

Requesting variance for square footage to exceed 50%

Case Number: C10- 18-01

Activity Number: T18SA00021

APPLICANT'S REQUEST TO THE BOARD OF ADJUSTMENT

Provide applicable UDC Section reference, what is required and what is proposed/provided for each variance requested.

The variance we are seeking is for gross floor area

Square footage is 854', required is 728

Per unified Code 6.6.3 D, requesting a variance to exceed total gross floor area of 50%

Case Number: C10- 18-01

Activity Number: T18SA00021



BOARD OF ADJUSTMENT – REQUIRED FINDINGS

Arizona State Statutes and UDC Section 3.10.3.K. state that the Board may grant a variance only if the variance request complies with each and every one of these "Findings" in full. It is up to the applicant to explain to the Board how the request complies with each Finding. **Important Note:** Do not leave any "Finding" unanswered or marked "Not Applicable" or "N/A".

1. That, because there are special circumstances applicable to the property, strict enforcement of the UDC will deprive such property of privileges enjoyed by other property of the same classification in the same zoning district;

Other property of the same classification and in the same zoning district, will not be deprived the same privilege

Sq. footage for room for track installation (O27 Gage), trolley and pulleys and off track storage

2. That such special circumstances were not self-imposed or created by the owner or one in possession of the property;

No special circumstances were imposed or have been created

Need more room to set up track layouts, minimum of 4' X 8' each and work/repair space

3. That the variance granted is subject to such conditions as will assure that the adjustment authorized shall not constitute a grant of special privileges inconsistent with the limitations upon other properties in the vicinity and zone in which such property is located;

The variance granted will place no limitations upon other properties in the vicinity or zone

No special privileges are to be implemented, detached structures are allowed in the zone
with more square footage

4. That, because of special circumstances applicable to the property, including its size, shape, topography, location, and surroundings, the property cannot reasonably be developed in conformity with the provisions of the UDC;

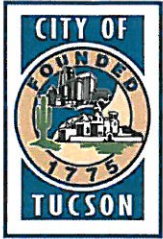
Because of special circumstances, includes square footage the building

can not be reasonably be constructed in conformity with the provisions of the UDC

Need increased square footage to place train layouts of a minimum size, engineered by the manufacturer (Lionel)

Case Number: C10-18-01

Activity Number: T18SA00021



BOARD OF ADJUSTMENT – REQUIRED FINDINGS (CONTINUED)

5. That the granting of the variance shall not be detrimental to the public welfare or injurious to other property or improvements in the neighborhood in which the property is located;

Is not impeding on others property, the granting of this variance will not be detrimental to the public welfare or injurious to other property or improvements in the neighborhood

Will be constructed to applicable building codes and well constructed

6. That the proposed variance will not impair an adequate supply of light and air to adjacent property, substantially increase congestion, or substantially diminish or impair property values within the neighborhood; and,

Proposed structure, will not impair an adequate supply of light and air to adjacent property, will not increase congestion, Detached Accessory Structure is not for vehicles

Will increase property value

7. That the variance, if granted, is the minimum variance that will afford relief and is the least modification possible of the UDC provisions that are in question.

This variance, if granted is the least modification possible of the UDC provisions that are in question per the City of Tucson Unified Development Code 6.6.3 D

Requesting minimum changes to allow for functional architectural and a aesthetically pleasing structure, that will allow for O27 minimum radii curves

Case Number: C10- 18-01

Activity Number: TT8SA00021

Parcel Number: 133-38-1750**Property Address**

Street Number	Street Direction	Street Name	Location
518	S	PLACITA QUINCE	Tucson

Contact Information

Taxpayer Information:	Property Description:
SIDES FRANCINE M & STEVEN G JT/RS 518 S PLACITA QUINCE TUCSON AZ 85748-6834	RANCHO DEL ESTE LOT 158

Valuation Data

Valuation Year	Legal Class	Assessment Ratio	Total FCV	Limited Value	Limited Assessed
2017	RES OWNER OCC (3)	10.0	\$173,049	\$164,512	\$16,451
2018	RES OWNER OCC (3)	10.0	\$185,474	\$172,738	\$17,274

Property Information

Township:	14.0	Section:	13	Range:	15.0E
Map & Plat:	27/58	Block:		Tract:	
Rule B District:	3	Land Measure:	1.00S	Group Code:	
Census Tract:	4017	File Id:	1	Date of Last Change:	7/8/2014
Use Code:	0131 (SFR GRADE 010-3 URBAN SUBDIVIDED)				

Property Appraiser: Stephen Hamner Phone: (520) 724-3061**Main Structure:**

Appraisal Date:	9/26/2014	Property Type:	Single Family Residence	Area ID:	Ed 7-050024-01-3
Processed:	12/31/1969	Building Class:	3	Physical Condition:	Fair
Total Living Area:	1,456	Garage Type:	Garage	Effective Construction Year:	1977
Garage Capacity:	4	Stories:	1	Patio Type:	Covered
Rooms:	6	Patio Number:	1	Quality:	Fair
Pool Area:	0	Exterior Walls:	Slump Block	Valuation Type:	00
Roof Type:	Built Up	Total Main:	\$165,602	Heating:	Forced
Total Control:	\$165,602	Cooling:	Refrigeration	Total Actual:	\$185,474
Bath Fixtures:	6	FCV Adjustment Factor:	1.000	Enhancement:	\$0
Last Calc:	0830				

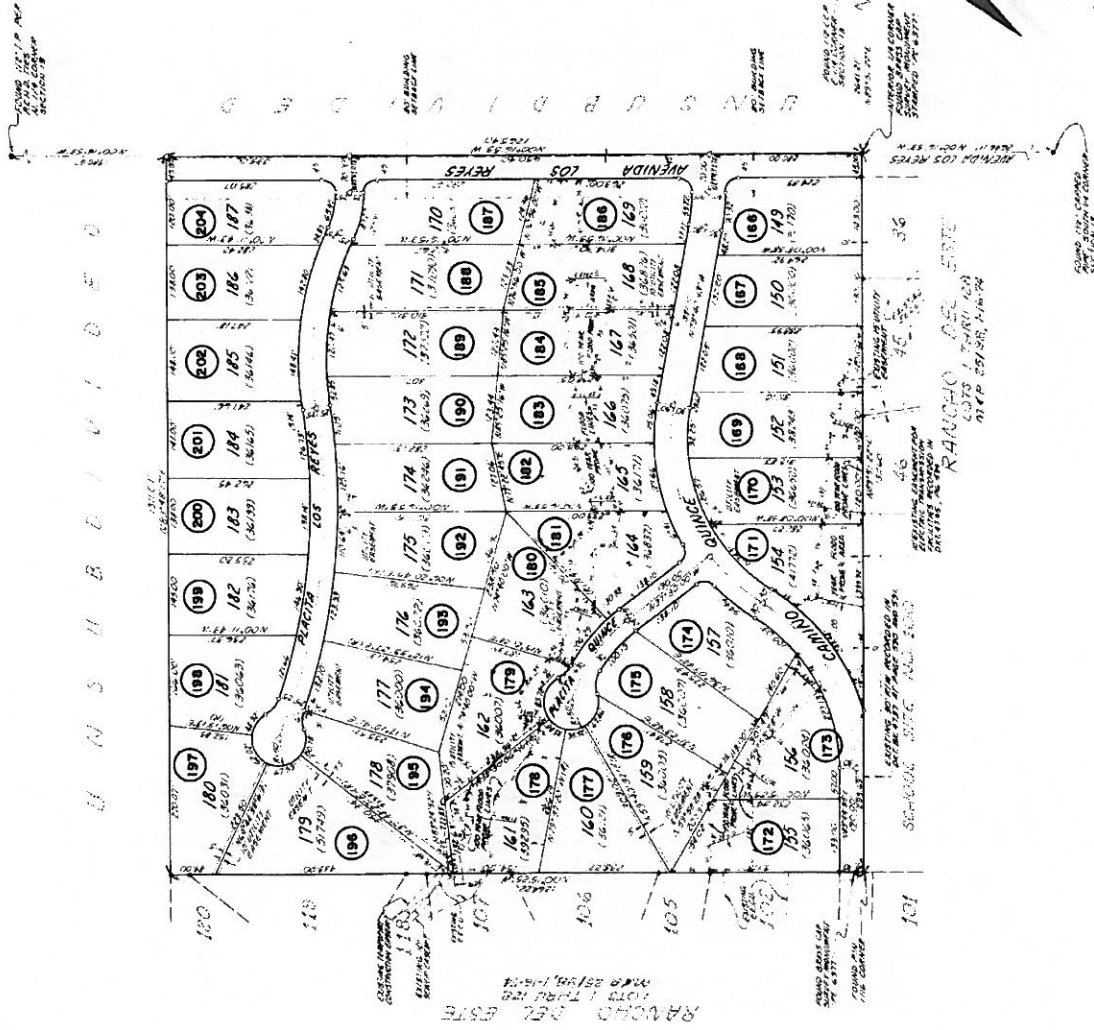
ASSESSOR'S

RECORD MAP

RANCHO DEL ESTE LOTS 149 THRU 187

133-38

ACTION	BY	DATE
DRAWN	A. H.	11/10/75
TRACED		
CHECKED	A. L.	11/10/75
APPROVED	H.S.G.	11/10/75
RELEASED	B. G.	12/2/75



SCALE: 1"=200'
SEE BOOK 27, PAGE 58



P&DS TRANSMITTAL

FROM: Mark Castro
Lead Planner

PROJECT: T17CM06843
518 S Placita Quince – Detached Accessory Structure

TRANSMITTAL: January 10, 2018 **REVISED**

COMMENTS: The following comments are for the purpose of applying for a variance before the Board of Adjustment (UDC Section 3.10.1).

This site is located in the RX-1 zone (UDC 4.7.6). A single-family residence (SFR) is a permitted use in this zone (Table 4.8-3). See Use-Specific Standards 4.9.7.B.5 - 9.

6.6.3. SPECIFICALLY WITHIN RESIDENTIAL ZONES

D. The total gross floor area (gfa) of all accessory structures shall not exceed 50% of the gfa of the principal structure. Accessory structures less than 200 square feet gfa are exempt from this requirement.

The existing dwelling is 2,620 sqft. The proposed total GFA of accessory structures is 1,348 sqft., which exceeds 50% of the principal structure.

10/12/2017

Neighborhood Meeting for our Board of Adjustment Variance Application

Dear Neighbor,

We are proposing to build a barn in our backyard.

Per the City of Tucson Unified Development Code 6.6.3 C and 6.6.3 D.

Therefore this project will require a variance of the code requirements. The variance we are seeking is height and gross floor area.

Prior to submitting our variance to the City of Tucson Planning & Development Services Department, we are required to offer to meet with our neighbors to discuss our project and answer any questions and address any concerns you might have.

The meeting will be held on 10/30/2017 at 6:00 p.m. at our property 518 S Placita Quince. There will be an attendance sheet at the meeting, please be sure to sign in. If you are not able to attend the meeting and have questions and/or concerns, feel free to contact me at 520-850-9053.

A formal application for variances will be submitted to the City of Tucson Planning & Development Services Department. Once our application is processed, we will be scheduled for a Board of Adjustment public hearing in which you may attend and speak at if so desired. You will receive an official notice from the City as to the date, time and place of the Board of Adjustment public hearing as well as a comment form that you may fill out regarding our project.

Thank you and we look forward to meeting with you.

NEIGHBORHOOD MEETING 10/30/2017 518 S. PLACITA QUINCE

PRNT NAME

SIGN NAME

[illegible]

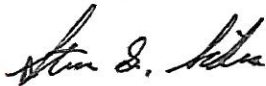
11/30/2017

Subject: Summary of Neighborhood Meeting 10/30/2017

The meeting was held on the property, 518 S. Placita Quince Tucson, Az. 85748
Starting at 6:00 p.m. and ending at 7 p.m. and 8 people attended.

The planned drawing was made available for all to review and a brief explanation of the project was given. Then discussion centered around the 2 variances for height and square footage. Height seemed to be of a concern, but square footage wasn't.

Thank you

A handwritten signature in black ink, appearing to read "Steve D. Silva". The signature is written in a cursive, flowing style.

11/30/2017

Subject: Clarification of meeting Notice

Dear Neighbor, on 10/12/2017 you received a notice from me regarding an offer to meet to discuss my project and the variances needed. This letter is to clarify the project; detached accessory structure, approximately 15' height and square footage 864, which will be used for model trains, work shop and storage.

Per the City of Tucson Unified Development Code sections 6.6.3 C and D.

C. Accessory structures shall not exceed 12 feet in height, unless attached to a principal structure. If attached to the principal structure, maximum height permitted shall be the same as for the principal structure; and,

D. The total gross floor area (gfa) of all accessory structures shall not exceed 50% of the gfa of the principal structure. Accessory structures less than 200 square feet gfa are exempt from this requirement.

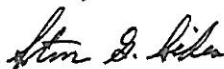
Therefore this project will require variances of the code requirements. The variance(s) we are seeking are; proposed height of the structure is 15 feet.

The total GFA of proposed and existing accessory structures is 1,348 sqft. The existing dwelling is 2,620 sqft."

Please contact me at #520-574-4496 if you have any question.

A formal application for variances will be submitted to the City of Tucson Planning & Development Services Department. Once our application is processed, we will be scheduled for a Board of Adjustment public hearing in which you may attend and speak at if so desired. You will receive an official notice from the City as to the date, time and place of the Board of Adjustment public hearing as well as a comment form that you may fill out regarding our project.

Thank you





MiTek USA, Inc.

7777 Greenback Lane
Suite 109
Citrus Heights, CA, 95610
Telephone 916/676-1900
Fax 916/676-1909

Re: SidesBarn

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by U.S. Components-Tucson, Az.

Pages or sheets covered by this seal: R52523458 thru R52523459

My license renewal date for the state of Arizona is September 30, 2019.

Arizona COA: 11906-0

Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.



December 11, 2017

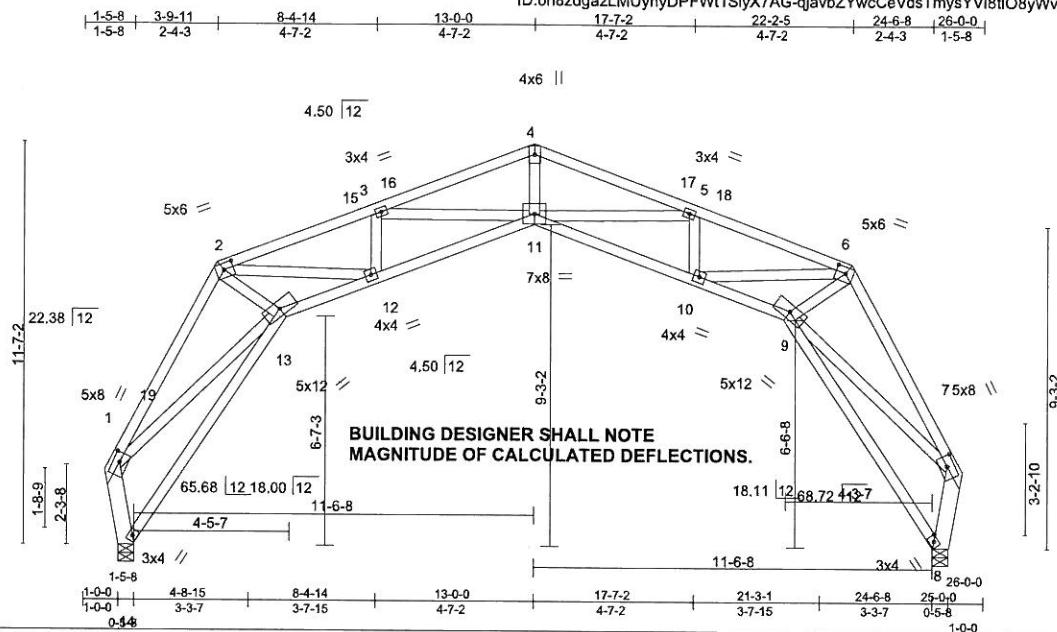
Hernandez, Marcos

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
SIDESBARN	T02	GABLE	15	1	

R52523459

US Components, Tucson, AZ - 85713,

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Dec 11 13:37:00 2017 Page 1
ID: on8zdgazLMUyhyDPFWt1SiyX7AG-qjavbZYwcCeVdsTmysYVl8tIO8yWvTl_jkWWd2yA0qX

Scale: 3/16"=1'

Plate Offsets (X,Y)-- [1:0-3-5,0-2-3], [2:0-3-4,0-2-3], [6:0-3-6,0-2-3], [7:0-3-11,0-2-7], [8:0-2-1,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.27	Vert(LL)	0.21	11	>999	360	MT20
TCDL 14.0	Lumber DOL	1.25	BC 0.43	Vert(TL)	-0.51	11-12	>553	240	185/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.85	Horz(TL)	1.07	8	n/a	n/a	
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MSH						
									Weight: 129 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E *Except*
1-14,7-8: 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF Stud/Std *Except*
2-13: 2x4 SPF 1650F 1.5E

REACTIONS. (lb/size) 8=969/0-5-8, 14=1018/0-5-8
Max Horz 14=205(LC 11)
Max Uplift 8=69(LC 11), 14=96(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2568/659, 3-4=-3003/627, 4-5=-3003/627, 5-6=-2573/648, 1-14=-811/304,
7-8=-848/297, 1-2=-1762/488, 6-7=-1748/471
BOT CHORD 12-13=-467/1528, 11-12=-496/2540, 10-11=-485/2545, 9-10=-315/1260, 13-14=-332/265
WEBS 4-11=-300/1821, 5-11=-63/596, 5-10=-473/162, 6-9=-105/487, 3-11=0/484,
3-12=-474/114, 1-13=-232/1210, 6-10=-247/1199, 2-12=-140/1204, 7-9=-209/1110,
2-13=-198/636

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=8.4psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-9-13 to 7-10-15, Interior(1) 7-10-15 to 9-0-0, Exterior(2) 9-0-0 to 13-0-0, Interior(1) 17-0-0 to 18-1-1, Exterior(2) 22-1-1 to 25-0-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 8, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 14.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



EXPIRES: 09/30/2019
December 11, 2017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

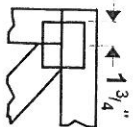
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek

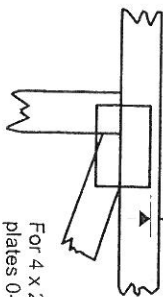
7777 Greenback Lane
Suite 109
Citrus Heights, CA 95610

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/8" from outside edge of truss.

— This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MITek 20/20 software or upon request.

PLATE SIZE

4 X 4

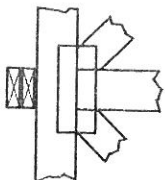
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



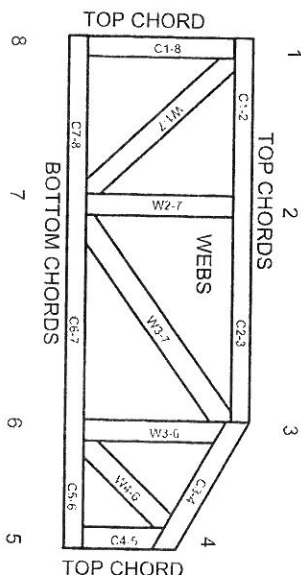
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

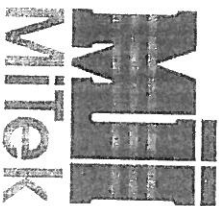
ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never slack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and ware at joint locations are regulated by ANSI/TP1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 Quality Criteria



MiTek USA, Inc.

7777 Greenback Lane
Suite 109
Citrus Heights, CA, 95610
Telephone 916/676-1900
Fax 916/676-1909

Re: SidesBarn

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by U.S. Components-Tucson, Az.

Pages or sheets covered by this seal: R52523458 thru R52523459

My license renewal date for the state of Arizona is September 30, 2019.

Arizona COA: 11906-0

Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.



December 11, 2017

Hernandez, Marcos

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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
SIDESBARN	T01E	GABLE	2	1	R52523458

US Components, Tucson, AZ - 85713,

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Dec 11 13:36:59 2017 Page 1
ID: on8zdgazLMUyhyDPFW1SiyX7AG-MX0XODXInuWe?uaP91GDwLbekdHA0drU4myhcyA0qY

MT 1.5x3 ON EACH FACE OF BOTH ENDS OF UN-PLATED MEMBERS OR EQUIVALENT CONNECTION BY OTHERS.

Scale: 3/16"=1'

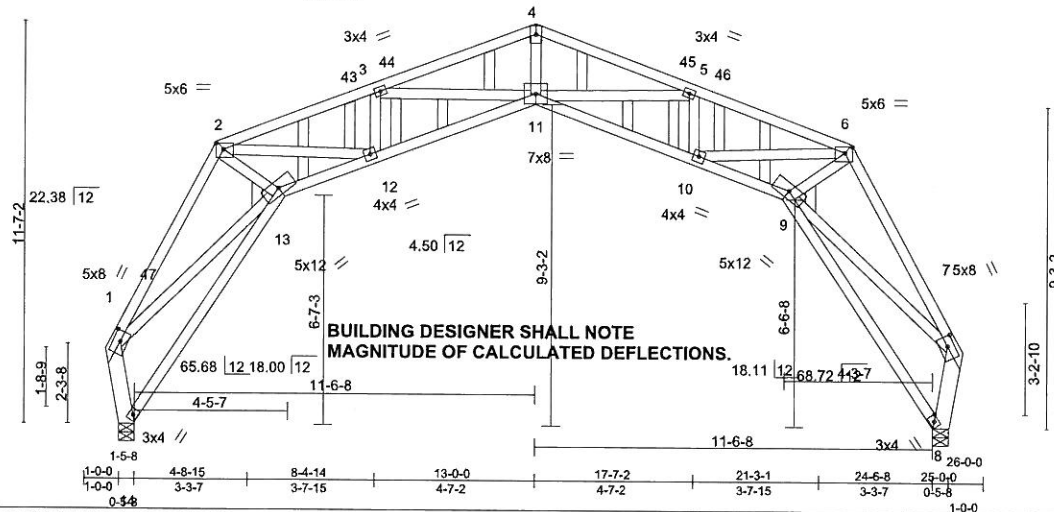


Plate Offsets (X,Y)=[1:0-3-9,0-2-7], [2:0-2-9,0-2-2], [6:0-2-10,0-2-2], [7:0-3-8,0-2-5], [8:0-2-1,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.27	Vert(LL)	0.21 11	>999	360	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.43	Vert(TL)	-0.51 11-12	>553	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.85	Horz(TL)	1.07 8	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MSH					Weight: 145 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E *Except*
1-14,7-8: 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF Stud/Std *Except*
2-13: 2x4 SPF 1650F 1.5E
OTHERS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(lb/size) 8=969/0-5-8, 14=1018/0-5-8
Max Horz 14=-205(LC 11)
Max Uplift 8=-69(LC 11), 14=-96(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2568/659, 3-4=-3003/627, 4-5=-3003/627, 5-6=-2573/648, 1-14=-811/304,
7-8=-848/297, 1-2=-1762/488, 6-7=-1748/471
BOT CHORD 12-13=-467/1528, 11-12=-496/2540, 10-11=-485/2545, 9-10=-315/1260, 13-14=-332/265
WEBS 4-11=-300/1821, 5-11=-63/596, 5-10=-473/162, 6-9=-105/487, 3-11=0/484,
3-12=-474/114, 1-13=-232/1210, 6-10=-247/1199, 2-12=-140/1204, 7-9=-209/1110,
2-13=-198/636

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCCL=8.4psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-9-13 to 7-10-15, Interior(1) 7-10-15 to 9-0-0, Exterior(2) 9-0-0 to 13-0-0, Interior(1) 17-0-0 to 18-1-1, Exterior(2) 22-1-1 to 25-0-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 8, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 14.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



EXPIRES: 09/30/2019
December 11,2017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

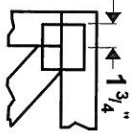
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



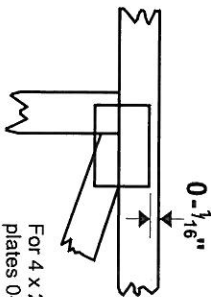
7777 Greenback Lane
Suite 109
Citrus Heights, CA 95610

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0 - 1/16" from outside edge of truss.

— This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MITek 20/20 software or upon request.

PLATE SIZE

4 X 4

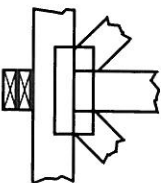
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



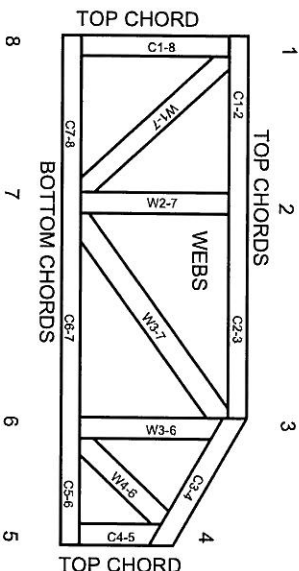
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MLI-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T or I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.



MiTek USA, Inc.

7777 Greenback Lane
Suite 109
Citrus Heights, CA, 95610
Telephone 916/676-1900
Fax 916/676-1909

Re: SidesBarn

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by U.S. Components-Tucson, Az.

Pages or sheets covered by this seal: R52523458 thru R52523459

My license renewal date for the state of Arizona is September 30, 2019.

Arizon COA: 11906-0

Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.



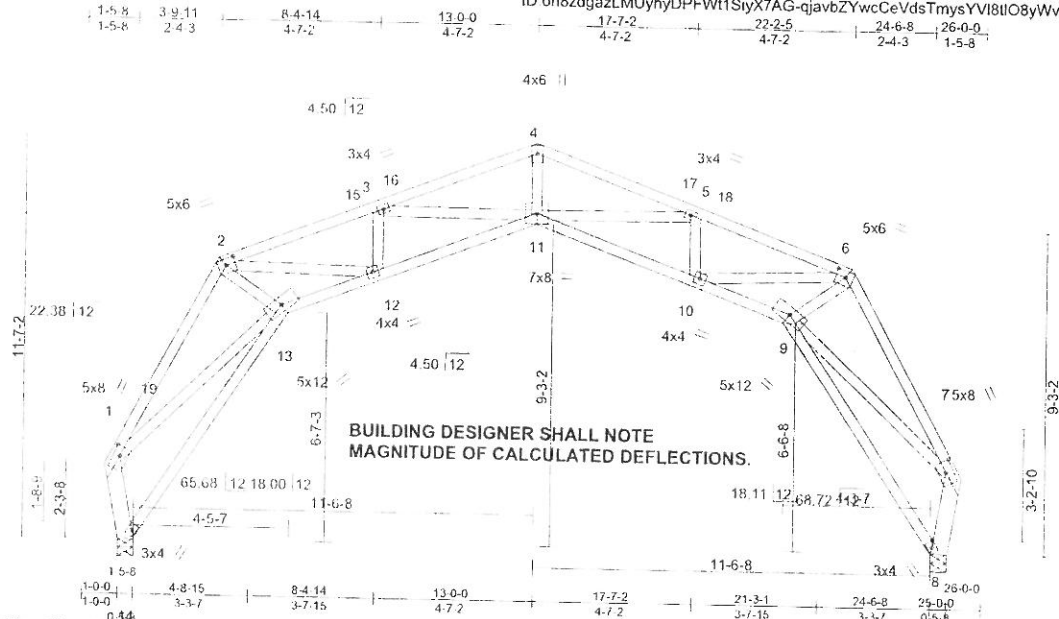
Hernandez, Marcos

December 11, 2017

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	
SIDFSBARN	T02	GABLE	15	1	
US Components: Tucson, AZ - 85713					R52523459

Job Reference (optional)
 8 130 s Sep 15 2017 MiTek Industries, Inc. Mon Dec 11 13:37:00 2017 Page 1
 ID on8zdgazLMuyhyDPFWt1SiyX7AG-qjavbZYwcCeVdsTmysYVl8tIO8yWvTl_jkWWd2yA0qX



Scale: 3/16"=1'

Plate Offsets (X,Y)--- [1.0-3-5,0-2-3], [2.0-3-4,0-2-3], [6.0-3-6,0-2-3], [7.0-3-11,0-2-7], [8.0-2-1,0-1-8]															
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES		GRIP	
TCLL 16.0		Plate Grip DOL		1.25		TC 0.27		Vert(LL)		0.21 11 >999 360		MT20		185/144	
TCDL 14.0		Lumber DOL		1.25		BC 0.43		Vert(TL)		-0.51 11-12 >553 240					
BCIL 0.0 *		Rep Stress Incr		YES		WB 0.85		Horz(TL)		1.07 8 n/a n/a					
BCDL 10.0		Code IRC2012/TPI2007				Matrix-MSH									
												Weight 129 lb		FT = 20%	

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E *Except*
 1-14, 7-8 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF Stud/Sid *Except*
 2-13 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 8=969/0-5-8, 14=1018/0-5-8
 Max Horz 14=-205(LC 11)
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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
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 3-12=-474/114, 1-13=-232/1210, 6-10=-247/1199, 2-12=-140/1204, 7-9=-209/1110,
 2-13=-198/636

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCCL=8.4psf; BCDL=6.0psf; h=33ft, Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-9-13 to 7-10-15, Interior(1) 7-10-15 to 9-0-0 Exterior(2) 9-0-0 to 13-0-0, Interior(1) 17-0-0 to 18-1-1, Exterior(2) 22-1-1 to 25-0-2 zone cantilever left and right exposed, end vertical left and right exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 8, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 14
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord



EXPIRES: 09/30/2019
 December 11, 2017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

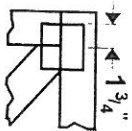
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse, with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI 1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information. Available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22304.

MiTek

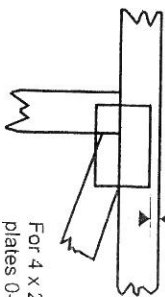
7777 Greenback Lane
 Suite 109
 Citrus Heights, CA 95610

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0 - 1/16\" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MITek 20/20 software or upon request.

PLATE SIZE

4 X 4

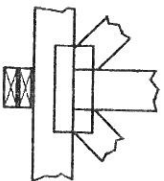
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or L bracing if indicated.

BEARING



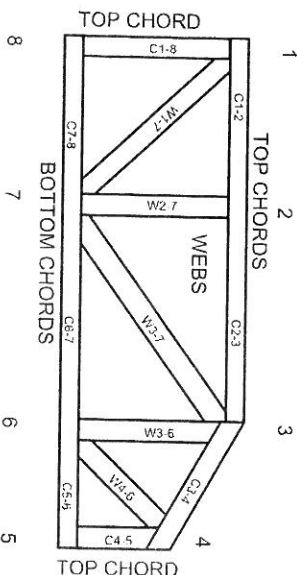
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:
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DSR-89: Design Standard for Bracing.
BCSI: Building Component Safety Information.
Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8

dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

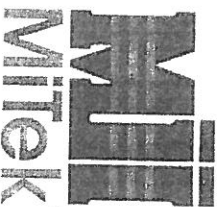
ICC-ES Reports:

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MITek Engineering Reference Sheet MJL-7473 rev. 10/03/2015

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5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
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12. Lumber used shall be of the species and size and in all respects, equal to or better than that specified.
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16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria